

C2

- (a) immunizing an animal with a polypeptide having the amino acid sequence of SEQ ID NO:1;
- (b) isolating an antibody from the animal; and
- (c) screening the isolated antibody for specific binding to an amino acid sequence of SEQ ID NO:1.

- 40. (AMENDED) A monoclonal antibody produced by a method comprising:
 - (a) immunizing an animal with a polypeptide having the amino acid sequence of SEQ ID NO:1;
 - (b) isolating an antibody producing cell from the animal;
 - (c) fusing the isolated cell with an immortalized cell to form a hybridoma cell;
 - (d) culturing the hybridoma cell; and
 - (e) isolating from the hybridoma cell culture a monoclonal antibody that specifically binds an amino acid sequence of SEQ ID NO:1.

Please add new claims 57-59 as follows:

Parly 58 59. (NEW) The antibody of claim 11, wherein the antibody inhibits the transport of phosphate molecules by a polypeptide comprising the amino acid sequence of SEQ ID NO: 1.

C4 *58.* (NEW) The antibody of claim 11, wherein the polypeptide consists of the amino acid sequence of SEQ ID NO: 1.

C59. (NEW) The composition of claim 32, wherein the polypeptide consists of the amino acid sequence of SEQ ID NO: 1.